

Roll no: 9555

AI Exp 2 Postlab.

Q-1/Ans] There is a relationship b/w Tic Tac Toe and Magic Square particularly in the context of a 3×3 magic square. In Tic Tac Toe, players aim to create a line of three of their symbol in row or column or diagonal. A 3×3 magic square is a mathematical construct where the sum of the numbers in each row, column and the diagonal is same. Both Tic Tac Toe and 3×3 magic square involve arranging symbols or numbers that satisfy criteria for winning.

Q-2/Ans] A magic square of order n is an arrangement of the numbers from 1 to n^2 in a square grid of size $n \times n$ such that the sum of the numbers in each row, each column and both diagonals is the same. This constant is known as the magic constant or magic sum. The most well known and studied magic square is of order 3×3 where the sum of each row, column and diagonal is 15. Magic squares exist for various orders but constructing them becomes increasingly challenging.